CITY OF SURPRISE GENERAL NOTES FOR UTILITY CONSTRUCTION

- 1. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AND TO THE CITY OF SURPRISE SUPPLEMENTS TO MAG.
- 2. ALL WORK PERFORMED IN THE CITY OF SURPRISE RIGHT-OF-WAY WILL REQUIRE AN APPROVED TRAFFIC CONTROL PERMIT ISSUED TO A BARRICADE COMPANY LICENSED TO WORK IN THE CITY OF SURPRISE
- 3. ALL PUBLIC UTILITY COMPANIES' CONTRACTORS AND SUB-CONTRACTORS ARE REQUIRED TO OBTAIN A CITY OF SURPRISE BUSINESS LICENSE PRIOR TO THE PERFORMANCE OF ANY WORK.
- 4. PLAN APPROVAL BY THE CITY OF SURPRISE FOR COMPLIANCE WITH CITY REQUIREMENTS SHALL NOT PREVENT THE CITY FROM REQUIRING THE CORRECTION OF ERRORS FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, OR CITY OF SURPRISE REQUIREMENT FOR UTILITY CONSTRUCTION IN THE RIGHT-OF-WAY.
- THE CONTRACTOR OR UTILITY COMPANY MUST HAVE A COPY OF THE APPROVED/ STAMPED CONSTRUCTION PLANS AND APPROVED TRAFFIC CONTROL PLAN AT THE PROJECT SITE AT ALL TIMES.
- 6. ALL UTILITIES CROSSINGS STREETS OR ROADS MUST BE DIRECTIONAL BORED WHERE POSSIBLE. PERMISSION TO BORE AND TO OPEN CUT EXISTING PAVEMENT REQUIRES SPECIFIC PLAN APPROVAL AND RIGHT-OF-WAY PERMIT FOR THE PROPOSED CONSTRUCTION.
- 7. PRIOR TO STARTING ANY WORK IN A MAJOR ARTERIAL OR COLLECTOR STREET, THE UTILITY COMPANY OR SUB-CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF SURPRISE CIVIL CONSTRUCTION INSPECTION PERSONNEL. SEE PERMIT FOR CONTACT INFORMATION.
- 8. THE CITY OF SURPRISE DOES NOT WARRANT ANY OF THE QUANTITIES SHOWN ON THESE PLANS.
- 9. THE UTILITY COMPANY SHALL CONTACT THE CITY OF SURPRISE CIVIL CONSTRUCTION INSPECTION PERSONNEL A MINIMUM OF FOURTY-EIGHT (48) HOURS IN ADVANCE OF ANY WORK. THE PERMIT NUMBER AND LOCATION MUST BE PROVIDED IN ORDER TO SCHEDULE INSPECTIONS.
- 10. ALL WORK REQUIRING ASPHALT REPLACEMENT, CONCRETE REPLACEMENT, OR RESURFACING, IN THE CITY OF SURPRISE RIGHT-OF-WAY, WILL REQUIRE A FINAL INSPECTION WITH THE UTILITY COMPANY REPRESENTATIVE AT THE TIME OF COMPLETION.
- 11. MAINTAIN THE FOLLOWING MINIMUM SEPARATIONS: SIX FEET (6') HORIZONTAL FROM WATER AND SEWER MAINS, AND TWO (2) FEET HORIZONTAL FROM ALL OTHER UTILITIES, MAINTAIN A MINIMUM OF ONE FOOT (1') VERTICAL SEPARATION FROM ALL UTILITIES. ALL DISTANCES ARE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 12. ALL POTHOLES FOR EXISTING UTILITY CROSSINGS OR SOIL BORINGS FOR FUTURE UTILITIES WILL BE REPAIRED PER MAG STANDARD DETAIL #212.
 THE CITY MAY REQUIRE ADDITIONAL REPAIRS, AS REQUIRED BY THE CIVIL ENGINEERING INSPECTOR.

THE FOLLOWING ITEMS SHALL BE APPROVED IN THE FIELD, TO ACCOUNT FOR UNFORESEEN CONDITIONS, BY THE CITY OF SURPRISE CIVIL ENGINEERING INSPECTOR:
-BACKFILL AND COMPACTION

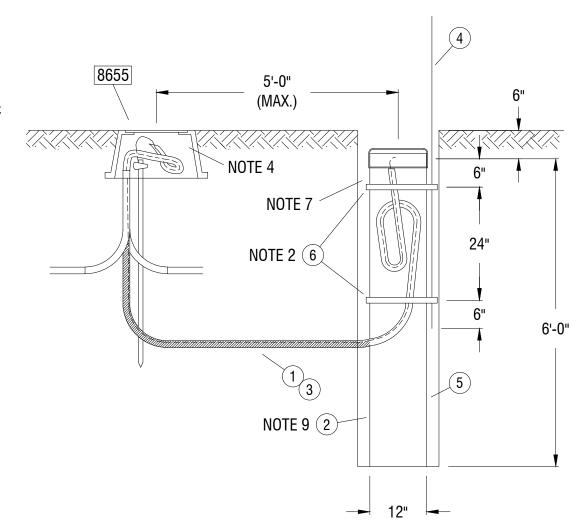
-CONCRETE REPAIR AND CURING
-ASPHALT REPAIR AND PAVEMENT MATCHING

- 14. ALL TRENCHES IN EXISTING AND FUTURE PAVEMENT ARE REQUIED TO BE BACKFILLED WITH A MINIMUM OF ONE-HALF (1/2) SACK SLURRY CONTROLLED LOW STRENGTH MATERIAL PER MAG SECTIONS 604 AND 728.
- 15. ALL TRENCHING WITHIN TWO (2) FEET OF THE BACK OF CURB OR EDGE OF PAVEMENT WILL REQUIRE ABC COMPACTED TO NINETY-FIVE PERCENT (95%) OR ONE HALF (1/2) SACK SLURRY CONTROLLED LOW-STRENGTH MATERIAL PER MAG SECTIONS 604 AND 728.
- 16. ALL WORK THAT LIES WITHIN A DESIGNATED FLOODPLAIN AREA WILL REQUIRE A FLOODPLAIN USE PERMIT FROM THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.
- 17. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE REPORTED TO THE CITY OF SURPRISE AND THE OWNER. REPAIR AND/OR REPLACEMENT IN KIND SHALL BE PER THE AGREEMENT WITH THE OWNER AND/OR THE CITY ON A CASE-BY-CASE BASIS
- 18. THE MINIMUM DEPTH OF COVER FOR VARIOUS UTILITIES SHALL BE AS SHOWN BELOW. TEMPORARY PAVEMENT REPLACEMENT THAT USES COLD-MIX ASPHALT SHALL BE REPLACED NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER INITIAL PLACEMENT.

TYPE DIRECT BURY CABLE	MINIMUM DEPTH 36"
FIBER OPTIC CABLE	36"
TELEVISION, TELEPHONE, CABLE, AND OTHER GAS	24" TO 36" 36"

STREETLIGHT SUMMARY								
SYM	#/TYPE POLE	#/TYPE LAMP	INVEST.BY	INST/REM				
A	28/1944.38	56/113W LED	OTHERS					
B	2/1944.38	2/113W LED	OTHERS	<u> </u>				
BILL TO: CITY OF SURPRISE								

CACTUS RD. AND LITCHFIELD RD. CITY OF SURPRISE CAPITAL IMPROVEMENT PROJECT #21210 APS JOB NUMBER WA218496



CODE	1911	MATERIAL LIST						
ITEM	QTY	DESCRIPTION	APN					
1	20	CONDUIT 1" PVC FLEX CORR	32900891					
2	1	FOAM BACKFILL 20 LB KIT	00072046					
3	20	LINE PULLING FLAT STRAP	32904400					
4	1	LOCATOR UNDERGROUND SERVICE	33101586					
5	1	SONO TUBE 6 FT X 12 IN	00064672					
6	4	TIE CABLE 30" BLACK NYLON	00103865					

SONOTUBE INSTALLATION DETAIL

TUBE INSTALLATION:

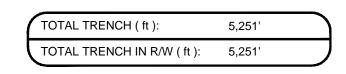
- 1. DIG HOLE FOR TUBE 6'-6" DEEP BY EITHER OF THE FOLLOWING:
- A. AUGERED HOLE: 18" DIAMETER (SEE NOTE 3).
- B. SLOTTED STUB-OUT TRENCH: THE STUB-OUT TRENCH OPTION SHALL NOT EXCEED A 24" WIDTH AND LENGTH NOT TO EXCEED 18 INCHES BEYOND POLE PLACEMENT. THIS WILL MAINTAIN THREE SIDES OF UNDISTURBED SOIL AROUND POLE.
- 2. PLACE RED PLASTIC LOCATOR MARKER OUTSIDE OF TUBE AND SECURE WITH SELF-LOCKING TIES IN TWO LOCATIONS.
- 3. STREET LIGHT ONLY HOLES FOR SONO TUBES SHALL BE AUGERED WITH AN 18" OR 20" MAX. AUGER.
- 4. PLACE STREET LIGHT FLEXIBLE CONDUIT IN TUBE WITH APPROXIMATELY 10" COILED INSIDE. DO NOT MAKE SHARP BENDS. BEND END OF CONDUIT OVER AND INSERT DOWN INTO TUBE AS SHOWN. INSPECTOR TO ENSURE FLEX IS NOT KINKED AND PULL LINE IS INSTALLED IN FLEX.
- 5. INSTALL THE OTHER END OF FLEX IN THE J-BOX. LEAVE SMALL COIL TO ALLOW LEVELING FOR FINAL GRADE. AFTER INSPECTION, BACKFILL.
- S. STRAIGHTEN AND COMPACT SOIL TO AT LEAST 85% COMPACTION AROUND TUBE.

POLE INSTALLATION:

- 7. ELECTRONIC MARKER WILL MARK LID LOCATION THROUGH BLUE STAKE NOTICE, LIGHT INSTALLER DIGS DOWN TO LID, REMOVES LID AND PULLS FLEX TUBE.
- 8. INSERT END OF FLEX THROUGH ACCESS HOLE AND PUSH IT UP THROUGH HAND HOLE AS LIGHT POLE IS LOWERED INTO TUBE.
- 9. HOLD LIGHT POLE SECURELY WHILE BACKFILLING TO AT LEAST 85% COMPACTION. COMPACTION CAN BE OBTAINED BY EITHER OF THE FOLLOWING TWO METHODS:
- A. BACKFILL FOAM (APN 00072046) IS PREFERRED TO SET POLE IN SONO TUBE. FOAM IS PROVIDED WITH 1911 CODE.
- B. SPECIAL ORDER PEA GRAVEL MAY BE USED TO COMPACT STREET LIGHT IN PLACE, (<3/4") SHOULD BE USED.
- 10. THE MARKER BALL ATTACHED UNDER THE CAP OF THE SONO TUBE LID, SHOULD BE RETURNED TO STOCK.

NOTE:

SEE CITY OF SURPRISE PLANS FOR EXACT STATION AND OFFSET FOR PROPOSED STREET LIGHTS.



WIRE DATA

INSTALLED UA1/0AL: ST. LT. CIRCUIT = 5,920' INSTALLED UA1/0AV: SVC. CIRCUIT = 105'

GENERAL TRENCHING NOTES

- 1. ALL WORK TO COMPLY WITH THE APS TRANSMISSION & DISTRIBUTION CONSTRUCTION STANDARDS (T.A.D.C.S.) MANUAL. ALL WORK SHALL COMPLY WITH THE NECESSARY PERMIT RESTRICTIONS AND REQUIREMENTS AS PROMULGATED BY THE LOCAL GOVERNMENTAL AGENCY AND / OR OTHER PUBLIC REGULATORY AGENCIES.
- 2. ALL TRENCHING ACTIVITIES SHALL CONFORM TO O.S.H.A. REGULATIONS. PROTECTION FOR EMPLOYEES AND OTHERS PER O.S.H.A. REQUIREMENTS SHALL BE PROVIDED ON ALL WORK.
- 3. DENOTES BACKFILL AND COMPACTION PER APS SPECIFICATIONS AS DEFINED IN THE 8601 SECTION OF THE APS T.A.D.C.S. MANUAL.*
- 4. MAINTAIN MINIMUM 12" VERTICAL SEPERATION BETWEEN ALL APS FACILITIES (i.e., DUCT BANK, CONDUIT, AND CABLE) AND ANY EXISTING UNDERGROUND CONFLICTS. MAINTAIN A MINIMUM OF 24" VERTICAL SEPERATION FROM ANY PROPOSED UNDERGROUND CONFLICTS.
- THE USABILITY OF ALL CONDUIT SYSTEMS MUST BEINSURED. WHERE THE PARTY RESPONSIBLE FOR INSTALLING THE CONDUIT SHALL BE MANDRELLED. MANDRELLING SHALL BE PER APS SPECIFICATIONS AS DEFINED IN THE 8601 SECTION OF THE APS T.A.D.C.S.) MANUAL.
- 6. WHERE 8895.MR (PRE-LUBRICATED LINE PULLING FLAT STRAP) IS TO BE INSTALLED, THEY SHALL BE PROVIDED BY APS AND INSTALLED BY THE CONTRACTOR. CAUTION!!! DO NOT ENTER ENERGIZED APS EQUIPMENT
- 7. TRENCH DEPTHS SHOWN ON TRENCH DETAILS ARE MINIMUM REQUIREMENTS.
- 8. REFER TO 8648 FOR MINIMUM TRENCH DEPTH REQUIREMENTS AT THE APPROACH TO, AND BENEATH APS PAD-MOUNTED EQUIPMENT AND SUBSTRUCTURES. THESE MINIMUMS ARE REQUIRED TO ENSURE ADEQUATE VERTICAL SPACE IS AVAILABLE TO INSTALL THE CONDUIT SWEEPS. CONDUIT SWEEPS SHALL NOT BE CUT-OFF TO FACILITATE INSTALLATION.
- 9. THE TRENCH BOTTOM SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES, OTHERWISE A SUFFICIENT AMOUNT OF BEDDING MATERIAL SHALL BE INSTALLED TO PROVIDE THE REQUIRED SURFACE. THE BEDDING MATERIAL SHALL NOT CONTAIN ROCKS LARGER THAN 1-1/2" IN THEIR GREATEST DIMENSION FOR RIGID CONDUIT SYSTEMS. THE BEDDING MATERIAL SHALL CONTAIN A SUFFICIENT VOLUME OF FINES TO FILL ALL VOIDS.
- 10. CONTRACTOR SHALL NOT TRENCH CLOSER THAN 2' TO APS ENERGIZED FACILITIES (EXCEPT 4' TO POLES) UNLESS AN APS REPRESENTATIVE IS PRESENT.
- 11. WHEN PASSING OVER OR UNDER CONFLICTS, TRENCH NOT TO BE SLOPED STEEPER THAN 1:12 RATIO OR MINIMUM RADIUS OF 160 TIMES THE OUTSIDE DIAMETER OF THE CONDUIT.
- 12. TRENCH WIDTHS SHOWN ARE MINIMUM REQUIREMENTS BASED ON CONDUIT SIZES. WHERE A WORKMAN MUST ENTER THE TRENCH, WIDTHS SHALL BE INCREASED PER 8620.
- 13. INSTALL SHADING AS NECESSARY PER SPEC 8601, ITEMS 5 & 6.

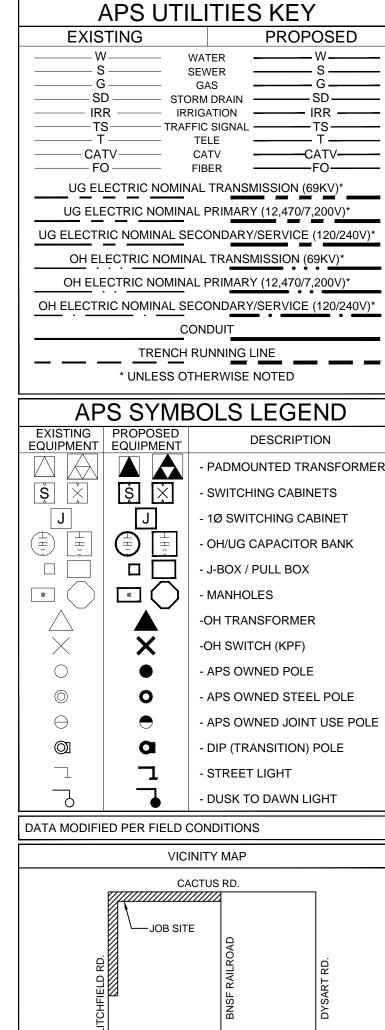
ITEMS OF RESPONSIBILITY

- 1) TO BE PROVIDED AND INSTALLED BY CITY OF SURPRISE CONTRACTOR
 - A. ALL TRENCH MATERIAL AND TRENCH RELATED WORK; INCLUDING, BUT NOT LIMITED TO; TRENCHING, SPOILS, REMOVAL, BACKFILL MATERIAL AND COMPACTION PER APS TRANSMISSION AND DISTRIBUTION CONSTRUCTION STANDARDS (T.A.D.C.S.) MANUAL, SECTION 8601. ALL SURFACE RESTORATION (I.E. LANDSCAPING, SIDEWALKS, CURBS, GUTTERS, PAVEMENT, DRIVEWAYS, VALLEY GUTTERS, ETC.) AS IT RELATES TO WORK PERFORMED ON THIS PROJECT BY THE CITY CONTRACTOR AND CITY CREWS.
 - ALL CONDUIT, CONDUIT RELATED MATERIAL AND WORK ASSOCIATED WITH THE CONDUIT, INCLUDING BUT NOT LIMITED TO; 1", 2", 2.5", 3", 4" AND 5" PVC CONDUIT, CONDUIT SWEEPS, COUPLINGS, CONDUIT CAPS, PRIMER, GLUE, CONDUIT SPACERS, REBAR, CONCRETE ENCASEMENT, AND MANDRELLING OF THE CONDUIT SYSTEM.
- C. ALL EMPTY CONDUIT ENDS SHALL BE PLUGGED WITH EXPANDABLE PLUGS WHEN TERMINATED INSIDE AN EQUIPMENT ENCLOSURE. GLUE AND CAP ALL EMPTY CONDUIT STUBBED IN SOIL OR TERMINATED OUTSIDE OF AN EQUIPMENT ENCLOSURE.
- D. ALL MISCELLANEOUS MATERIAL AND WORK INCLUDING, BUT NOT LIMITED TO, BARRICADING, SHORING, STEEL PLATING, AND TRAFFIC CONTROL.
- E. WHERE DUCT BANKS ARE REQUIRED: LABOR AND 2-SACK MATERIAL FOR THE CONCRETE ENCASEMENT OF THE DUCT BANK, UNLESS OTHERWISE SPECIFIED
- F. LABOR TO INSTALL APS PROVIDED J-BOXES, GROUND RODS (OR ALTERNATE GROUNDING MATERIAL), SONO TUBES, FLAT STRAP AND CONDUIT PLUGS.
- G. ALL CONDUITS SHOWN TO BE ENDING IN ENERGIZED APS EQUIPMENT SHALL BE STUBBED 4 FEET 'FROM EITHER THE EQUIPMENT OR THE BLUE STAKE MARKING FOR UNDERGROUND ELECTRIC CABLES IN THE VICINITY. THE CONDUIT IS TO BE CAPPED AND MARKED FOR APS CREWS TO CONNECT TO THE EQUIPMENT. CAUTION!!! DO NOT ENTER ENERGIZED APS EQUIPMENT
- H. LABOR TO EXPOSE AND ATTACH TO/OR REROUTE EXISTING EMPTY CONDUIT. REROUTING OF CONDUIT PRESENTLY IN USE SHALL BE PERFORMED AFTER EXISTING ELECTRICAL CABLE HAS BEEN REMOVED BY APS FORCES.
- I. CONSTRUCTION CENTERLINE STAKING, ALL VERTICAL CONTROL AND STAKING OF DEPTH REQUIREMENTS FOR ALL APS EQUIPMENT AND TRENCHES. TRENCH ALIGNMENT AND DEPTHS SHALL BE ADJUSTED TO PROVIDE A MINIMUM OF TWO (2) FEET VERTICAL CLEARANCE FROM PROPOSED CONFLICTS, AND ONE (1) FOOT VERTICAL CLEARANCE FROM EXISTING CONFLICTS. APS REQUIRES TWO-(2) FEET HORIZONTAL ALIGNMENT FROM ALL EXISTING AND PROPOSED CONFLICTS.
- 2) TO BE PROVIDED BY ARIZONA PUBLIC SERVICE CO. AND INSTALLED BY THE CITY OF SURPRISE CONTRACTOR
- A. ALL SECONDARY J-BOXES, GROUND RODS (OR ALTERNATE GROUNDING MATERIAL), SONO TUBES, FLAT STRAP, CONDUIT PLUGS, AND ELECTRONIC MARKERS.
- B. THE CITY CONTRACTOR MUST SCHEDULE WITH THE APS WAREHOUSE FOR MATERIAL PICKUP. CONTACT ALISSA SCHAD AT 602-371-7758 TO SCHEDULE AN APPOINTMENT. A LATE ARRIVAL TIME OF MORE THAN TEN MINUTES FROM YOUR SCHEDULED TIME, MAY RESULT IN AN APS CANCELLATION OF THE APPOINTMENT, DEPENDING ON THE CONGESTION AND WORKLOAD PRESENT AT THE APS WAREHOUSE.
- 3) TO BE PROVIDED AND INSTALLED BY ARIZONA PUBLIC SERVICE COMPANY
- A. SURVEY FOR HORIZONTAL CONTROL OF APS RELATED TRENCHES AND EQUIPMENT. CITY CONTRACTOR TO CALL 602-371-7010 TEN (10) WORKING DAYS IN ADVANCE TO NEEDING CONTROL FOR TRENCHING.
- B. ALL STREET LIGHT RELATED MATERIAL AND WORK ASSOCIATED WITH THE STREET LIGHTS, INCLUDING BUT NOT LIMITED TO; POLES, MAST ARMS, LUMINAIRES, 10 AMP IN-LINE FUSES (IN HAND HOLE OF THE NEW STREET LIGHT POLES).
- C. CONDUIT SYSTEM INSPECTION INCLUDING; TRENCH WORK, CONDUIT INSTALLATION, MISCELLANEOUS WORK AND INSTALLATIONS. CALL THE APS LEAD INSPECTOR JOHN WILSON AT 602-371-6512 OR CELL 602-708-8881 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF TRENCHING.
- D. APS TRANSMISSION AND DISTRIBUTION CONSTRUCTION SPECIFICATIONS AS RELATED TO THE PROJECT.
- E. ALL TRENCH, BELL HOLES AND BACKFILL AS REQUIRED TO SPLICE APS CABLES FROM THE POINT AT WHICH THE CITY CONTRACTOR ENDED TO THE APS EQUIPMENT CABINET (SURFACE RESTORATION IS TO BE PROVIDED BY THE CITY CONTRACTOR).
- F. CONNECTIONS TO THE CITY CONTRACTOR'S CONDUIT AFTER THE SYSTEM HAS BEEN MANDRELLED AND ACCEPTED.
- G. ALL CONDUIT AND SWEEPS, AS REQUIRED, FROM THE POINT AT WHICH THE CITY CONTRACTOR'S CONDUIT ENDED, TO THE EXISTING ENERGIZED ELECTRICAL EQUIPMENT.
- H. ALL SECONDARY CABLE, PRIMARY CABLE, TERMINATIONS, SWEEPS INTO ENERGIZED TRANSFORMERS, MANDRELLING, FLAT STRAP OF CONDUIT INTO ENERGIZED EQUIPMENT AND FUSES IN STREETLIGHT J-BOXES.



NOTE:
SEE SHEET 2 OF 8 FOR
TRENCH DETAILS





CACTUS RD.

PEORIA AVE.

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 CONTACT:
 RONNIE GANDARA

 PHONE:
 602-371-7546
 PGR/MOBILE:
 602-320-7069

 INSPECTOR:
 JJ SIMMONS

 PHONE:
 602-371-7238
 PGR/MOBILE:
 602-618-1132

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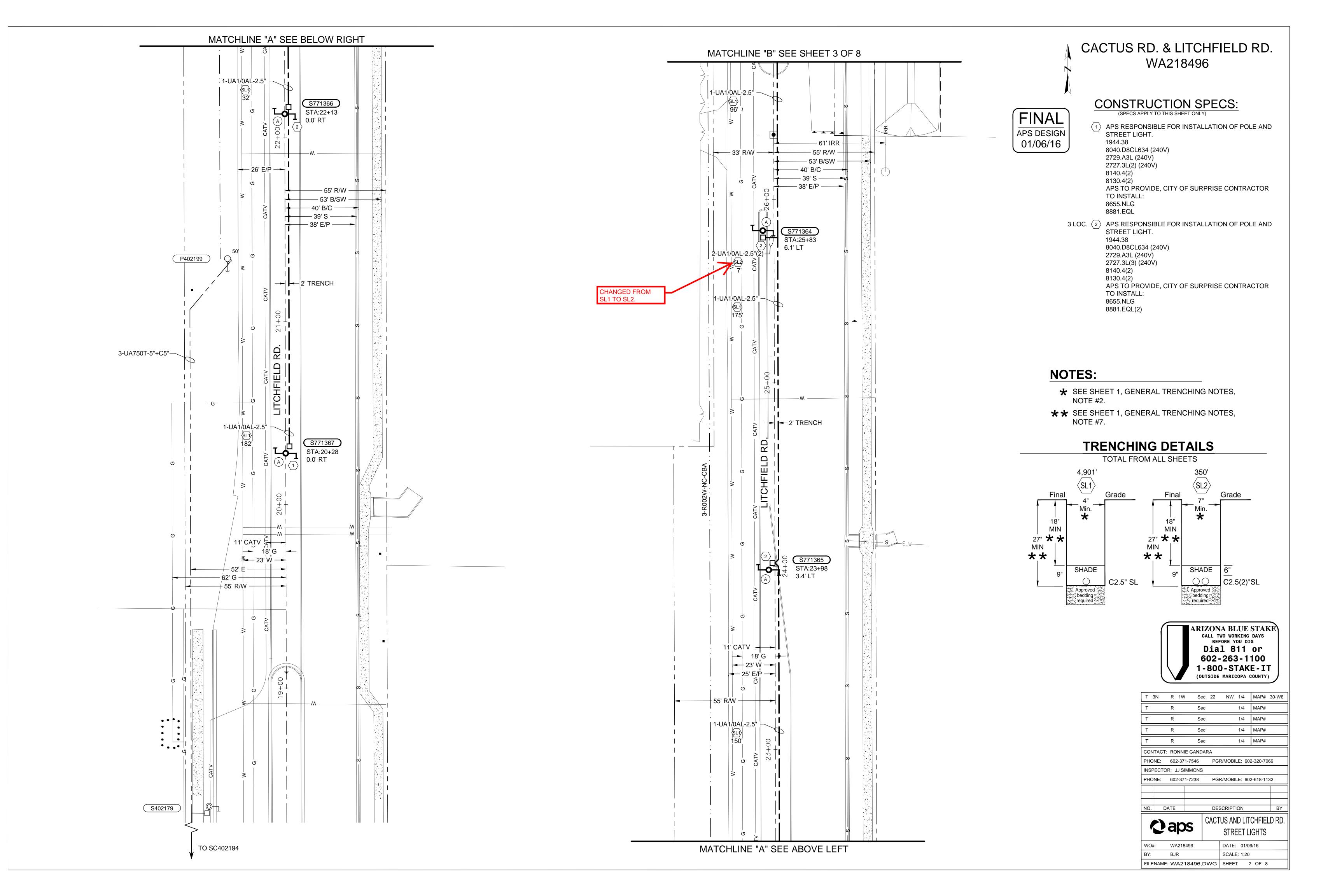
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STREET LIGHTS

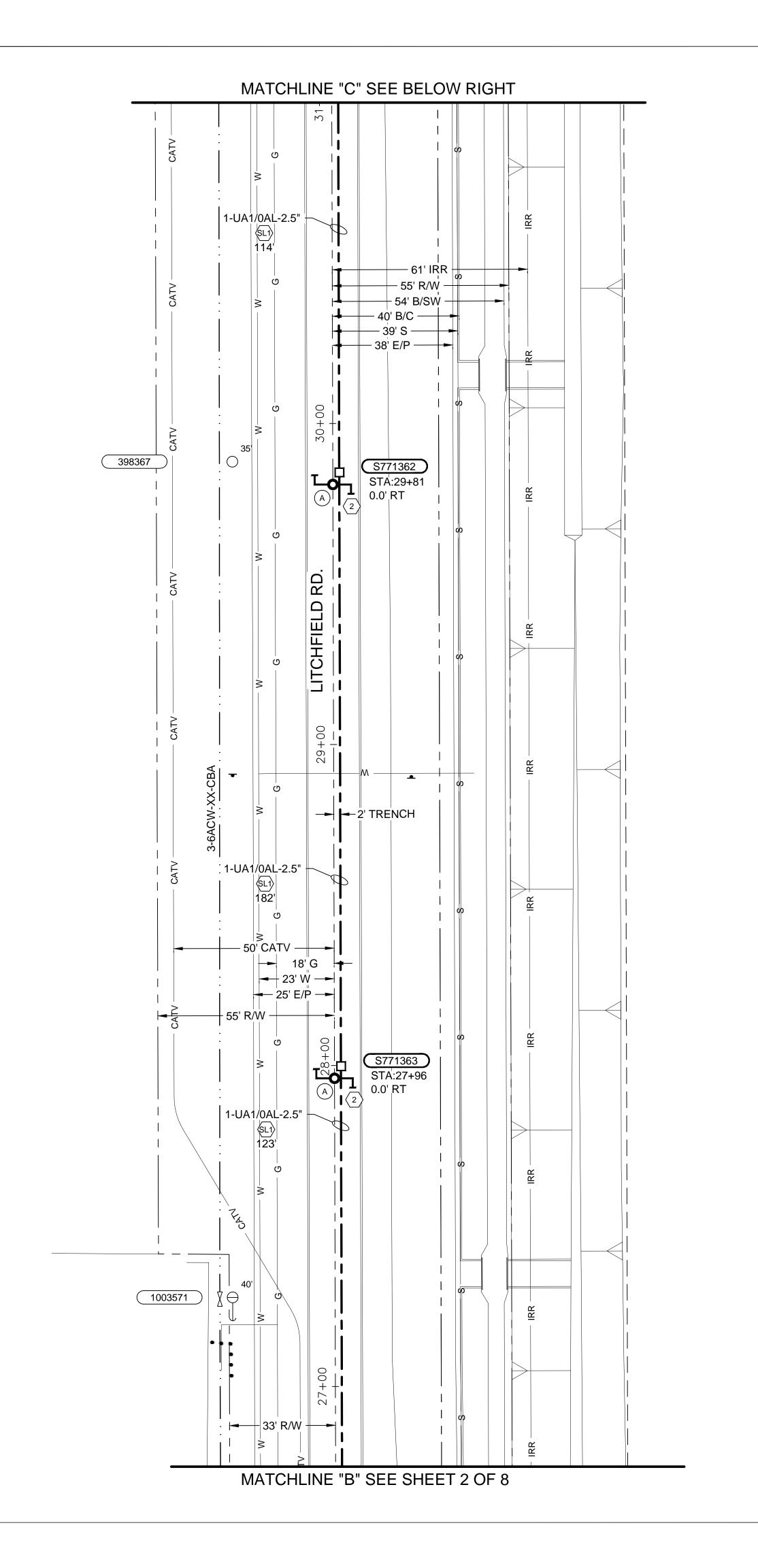
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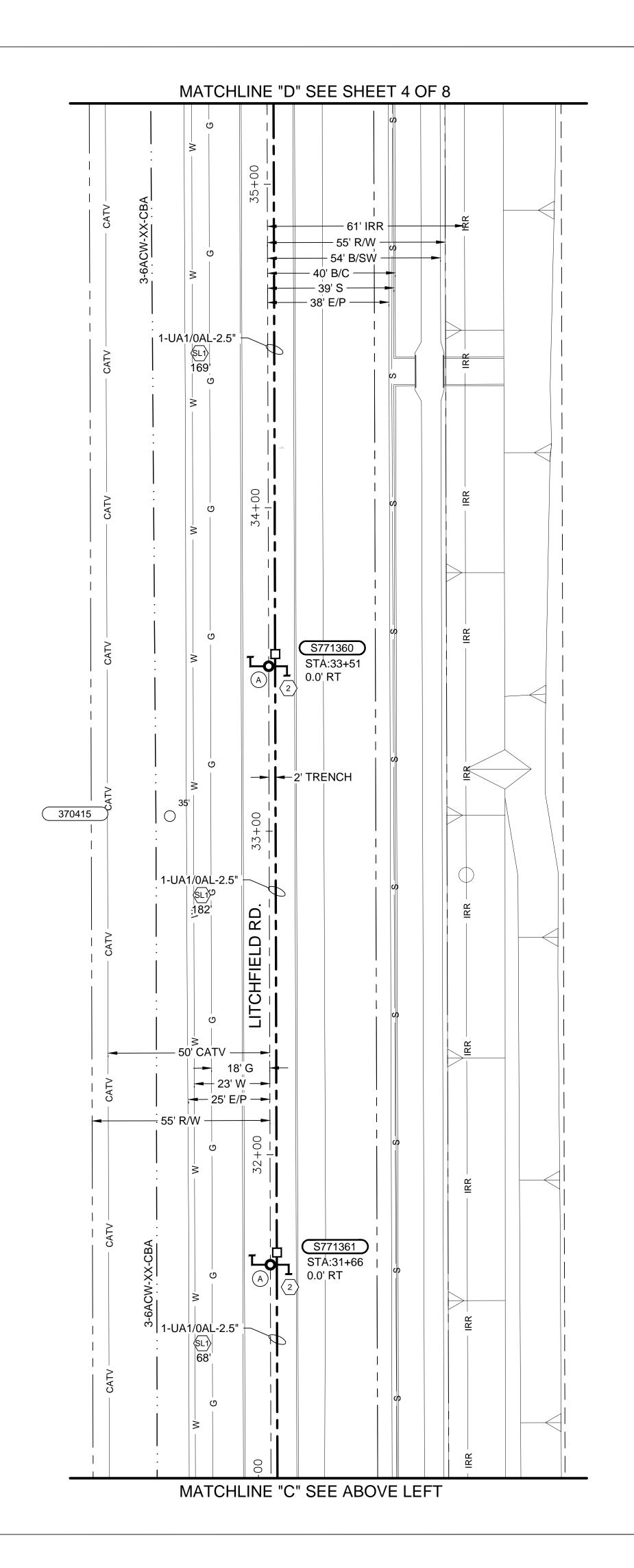
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BY: BJR SCALE: 1:20

FILENAME: WA218496.DWG SHEET 1 OF 8







CACTUS RD. & LITCHFIELD RD. WA218496

CONSTRUCTION SPECS: (SPECS APPLY TO THIS SHEET ONLY)

4 LOC. (2) APS RESPONSIBLE FOR INSTALLATION OF POLE AND STREET LIGHT.
1944.38

1944.38 8040.D8CL634 (240V)

8040.D8CL634 (24 2729.A3L (240V)

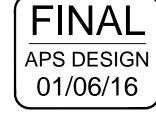
2727.3L(3) (240V) 8140.4(2)

8130.4(2)

APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR TO INSTALL:

10 INSTALL: 8655.NLG

8881.EQL(2)





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CONTACT: RONNIE GANDARA							
PHONE: 602-371-7546 PGR/MOBILE: 602-320-7069							
INSPECTOR: JJ SIMMONS							

PHONE: 602-371-7238 PGR/MOBILE: 602-618-1132

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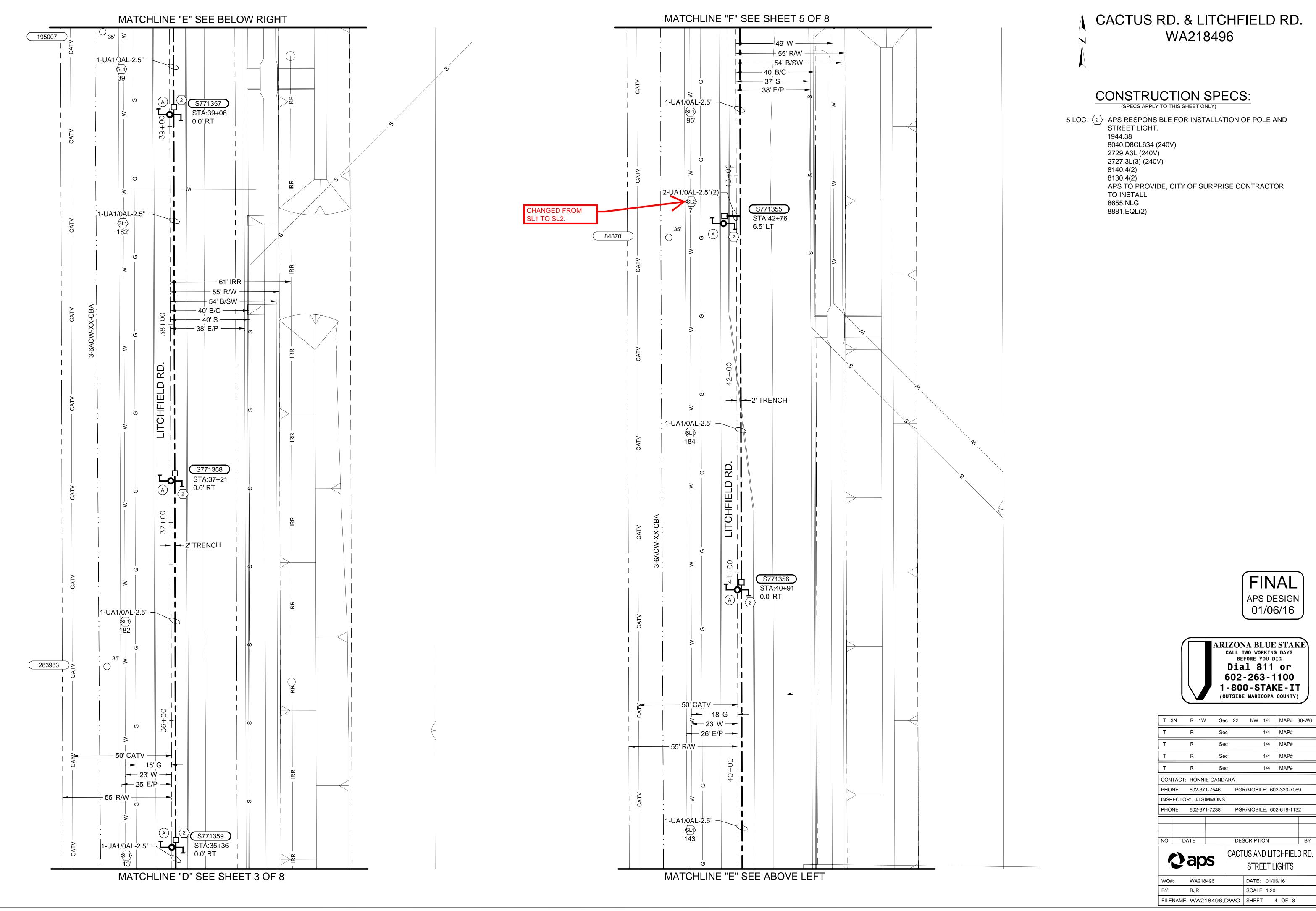
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CACTUS AND LITCHFIELD RD.
STREET LIGHTS

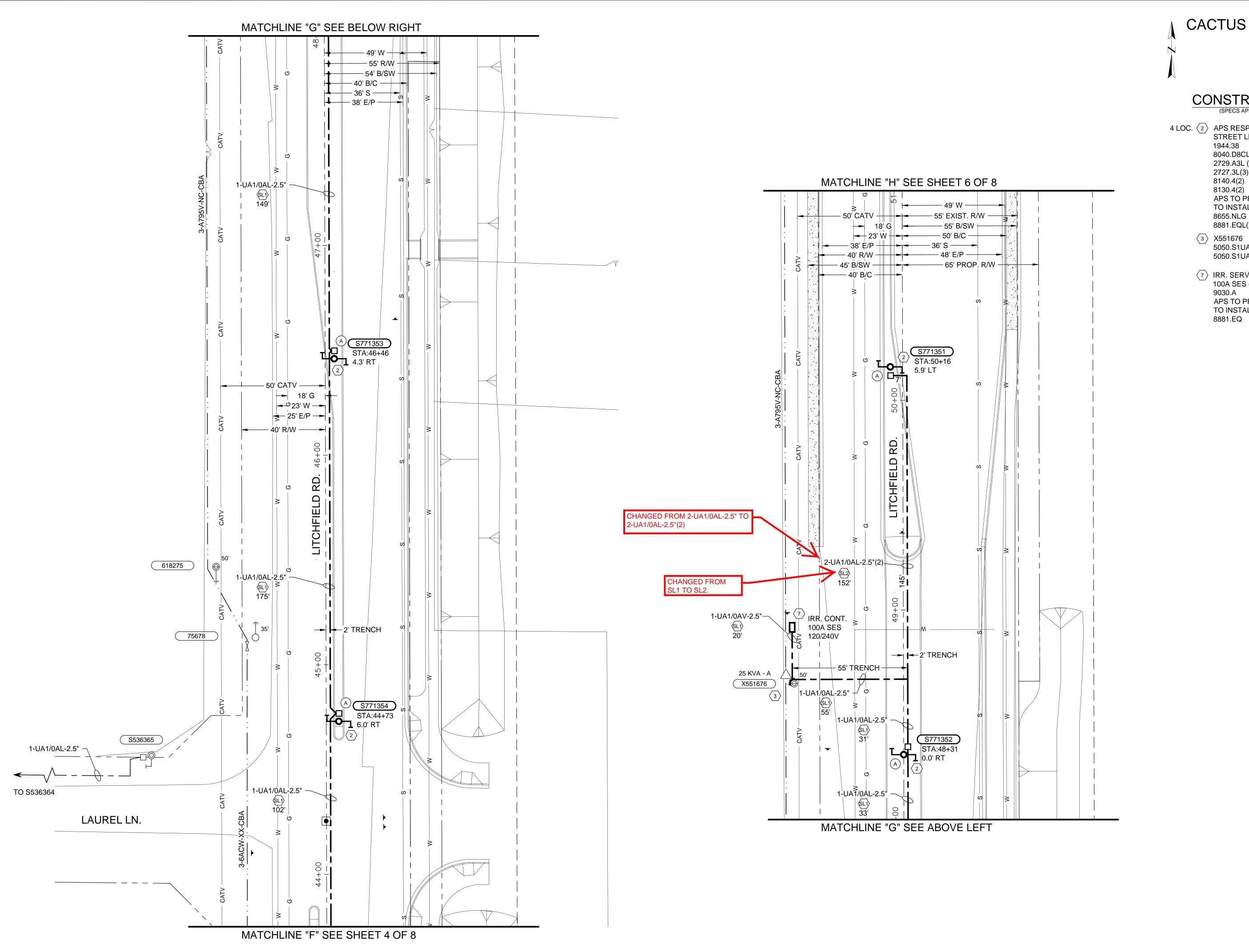
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CONTACT: RONNIE GANDARA							
PHONE:	602-371-7546 PGR/MOBILE: 602-320-7069						
INSPECTOR: JUSIMMONS							



CACTUS RD. & LITCHFIELD RD. WA218496

CONSTRUCTION SPECS: (SPECS APPLY TO THIS SHEET ONLY)

4 LOC. (2) APS RESPONSIBLE FOR INSTALLATION OF POLE AND STREET LIGHT.

1944.38 8040.D8CL634 (240V) 2729.A3L (240V) 2727.3L(3) (240V) 8140.4(2) 8130.4(2)

APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR TO INSTALL:

8655.NLG 8881.EQL(2)

5050.S1UA1/0AL (240V) 5050.S1UA1/0A (240V)

 $\langle 7 \rangle$ IRR. SERVICE 100A SES (120/240V) 9030.A APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR TO INSTALL: 8881.EQ

> FINAL APS DESIGN 01/06/16

ARIZONA BLUE STAKE call two working days BEFORE YOU DIG Dial 811 or 602-263-1100 -800-STAKE-IT

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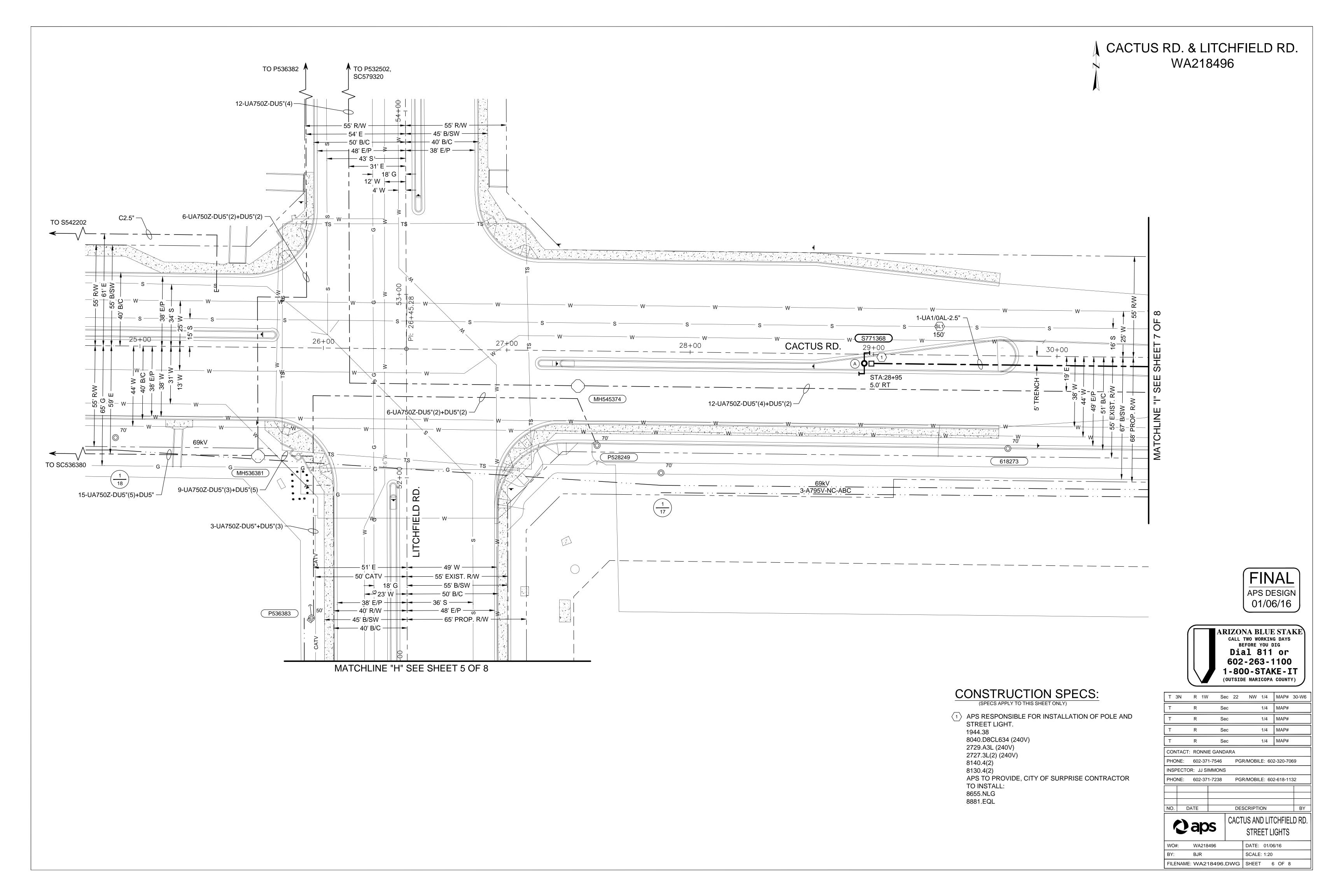
CONTACT: RONNIE GANDARA PHONE: 602-371-7546 PGR/MOBILE: 602-320-7069

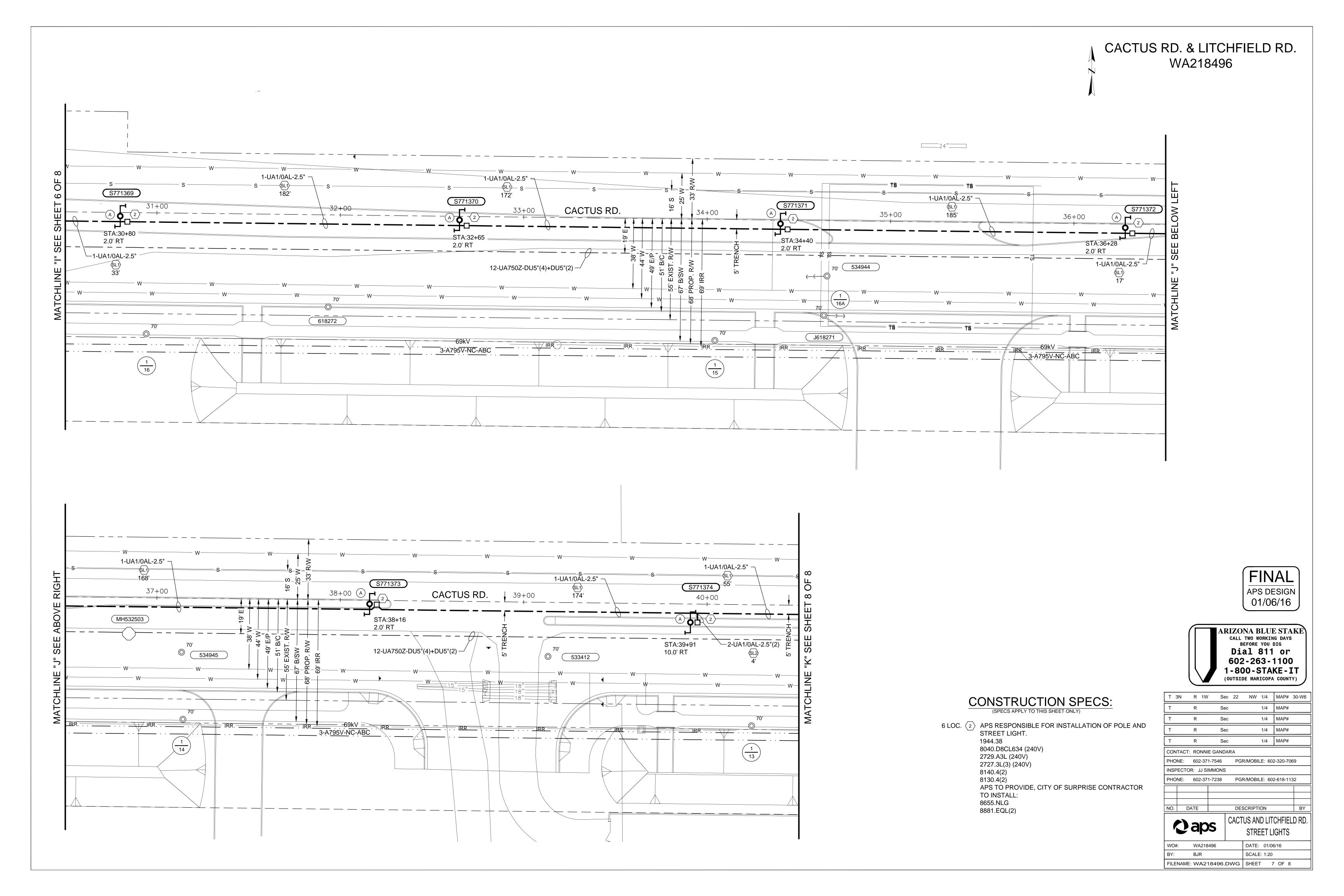
INSPECTOR: JJ SIMMONS PHONE: 602-371-7238 PGR/MOBILE: 602-618-1132

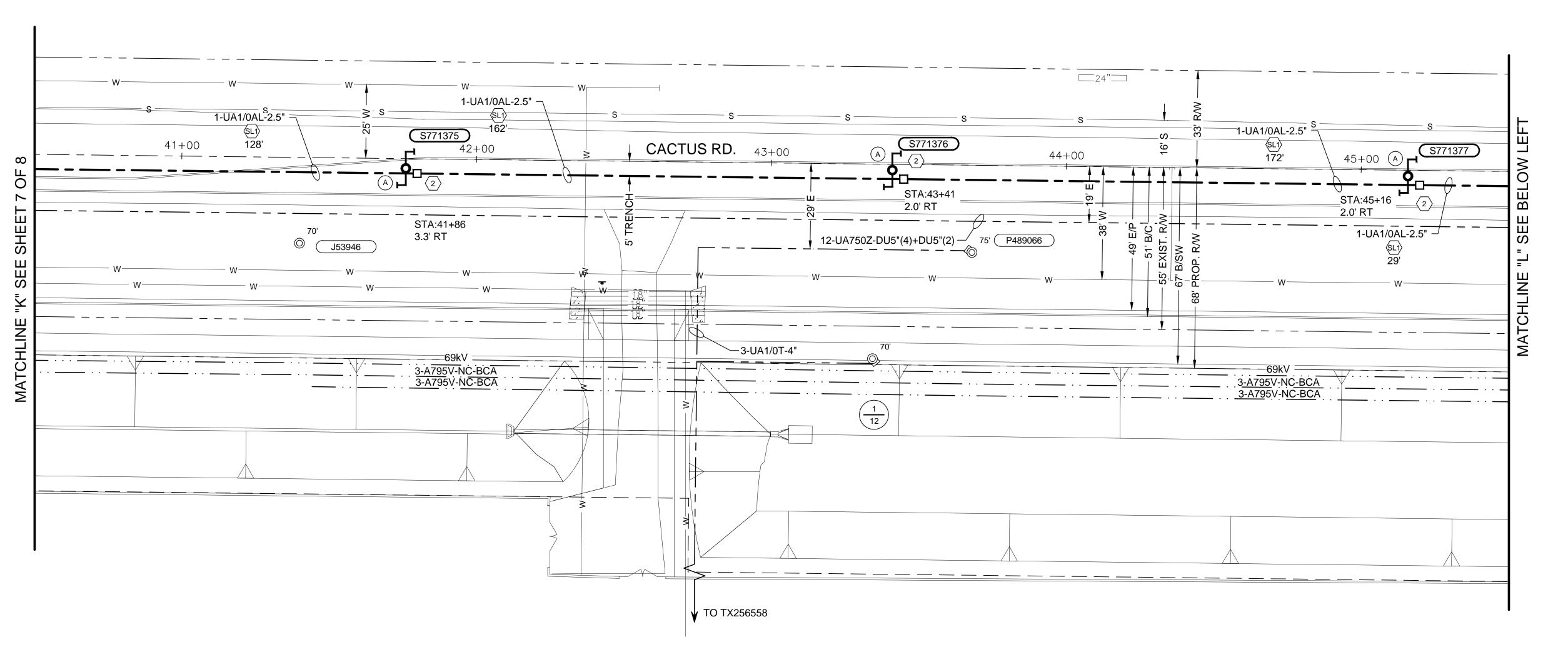
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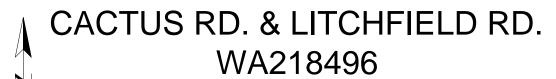
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CONSTRUCTION SPECS: (SPECS APPLY TO THIS SHEET ONLY)

4 LOC. (2) APS RESPONSIBLE FOR INSTALLATION OF POLE AND

STREET LIGHT. 1944.38 8040.D8CL634 (240V)

2729.A3L (240V) 2727.3L(3) (240V) 8140.4(2)

8130.4(2)
APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR
TO INSTALL:

8655.NLG 8881.EQL(2)

2 LOC. 4 APS RESPONSIBLE FOR INSTALLATION OF POLE AND

STREET LIGHT. 1944.38 8040.S8CL634 (240V) 2729.A3L (240V) 2727.3L(2) (240V) 8140.4(2) 8130.4(2)

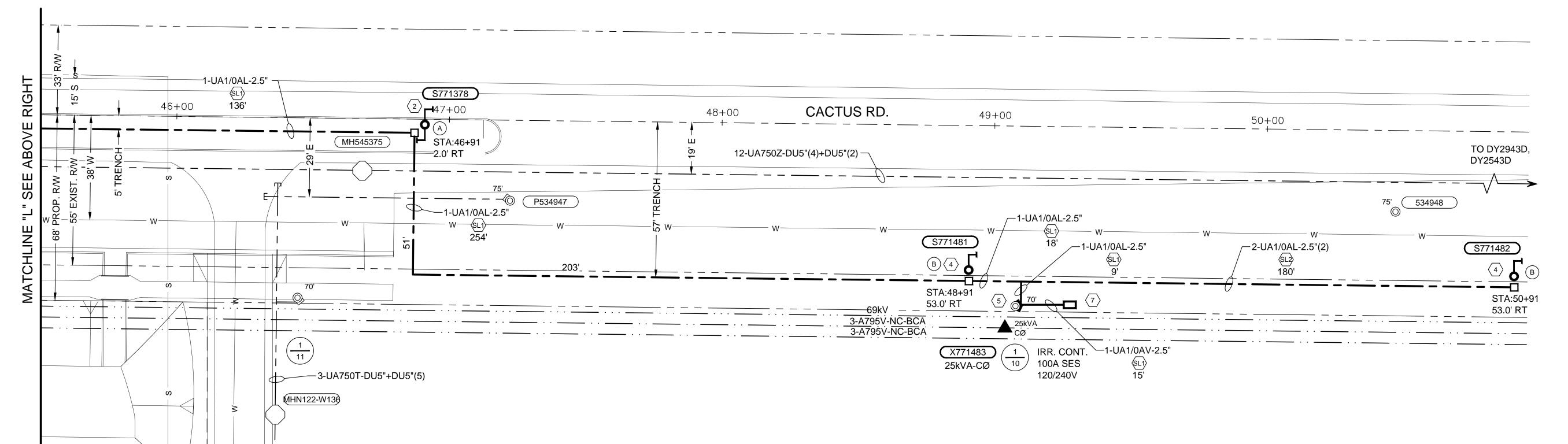
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APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR
TO INSTALL:

8655.NLG 8881.EQL(2)

8881.EQ

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IRR. SERVICE
100A SES (120/240V)
9030.A
APS TO PROVIDE, CITY OF SURPRISE CONTRACTOR
TO INSTALL:



TO MSC5606





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CACTUS AND LITCHFIELD RD.
STREET LIGHTS

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 SHEET
 8 OF 8